

PLAN FOR REPAIR AND MAINTENANCE OF THE EMERGENCY POND

AltEn Facility

The AltEn Facilities Group plans to perform repair and maintenance of the Emergency Pond at the AltEn Facility, Mead Nebraska. This activity includes the removal of solids and liquid wastes and replacement of the existing liner. The site measures approximately 700-ft. by 150-ft (approximately 110,000 SF). It is expected that between 18,000 CY and 25,000 CY of process sludge will be removed and placed in the Northwest Wet Cake Pile. This work is being performed as repair and maintenance of an existing facility and as such is not subject to Title 123 permitting requirements.

Free liquids will be pumped to the southeast lagoon. Sludge material will be processed on the eastern side of the Emergency Pond, where it will be amended with a drying agent.

As the sludge amendment process continues, any free liquids will be moved into the western side of the Emergency Pond to be removed and treated. Once the sludge is dry enough to transport, the material will be loaded onto haul trucks and transported to the Northwest Wet Cake Pile, where it will be consolidated with the wet cake. This will continue until all reasonable sludge can be removed from the existing liner.

The existing Emergency Pond liner will be removed by cutting along the top of the berms. The liner will be cut and sized into smaller and manageable pieces. The liner pieces will be loaded onto the haul trucks and placed in the Northwest Wet Cake Pile. Once the liner has been removed, the bottom and side walls will be prepared (light grading, compaction) for liner replacement.

A new 60-mil liner will be installed over the Emergency Pond. The process will involve cutting in a 1-ft. X 1-ft. anchor trench around the top of the berm to anchor in the lining system. Geofabric will be placed on the slopes and pond floor, followed by a 60-mil liner and secured within the anchor trench with imported fill.

Appropriate worker and health, safety, and air monitoring protocols will be implemented using the same protocols as were defined for the wet cake consolidation work. It is anticipated that the repair and maintenance of the Emergency Pond will be conducted over a 5-6 week period. Work is expected to begin the week of August 30, 2021.